



## SEQUENCE LISTING

<110> Ota, Toshio  
Nishikawa, Tetsuo  
Salamov, Asaf  
Isogai, Takao

<120> METHOD FOR SCREENING FULL-LENGTH cDNA  
CLONES

<130> 06501-058001

<140> 09/529,962  
<141> 2000-04-20

<150> JP 9/289982  
<151> 1997-10-22

<150> PCT/JP98/04772  
<151> 1998-10-21

<160> 18

<170> FastSEQ for Windows Version 4.0

<210> 1  
<211> 30  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Oligo-capping linker sequence

<400> 1  
agcaucgagu cgcccuuguu ggccuacugg 30

<210> 2  
<211> 42  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Oligo(dT) adapter primer sequence

<400> 2  
gcggctgaag acggcctatg tggccttttt tttttttttt tt 42

<210> 3  
<211> 32  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Random adapter primer sequence

<221> misc\_feature

<222> (1)...(32)

<223> n = A,T,C or G

<400> 3

gcggctgaag acggcctatg tggccnnnnn nc

32

<210> 4

<211> 880

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(880)

<223> n = A,T,C or G

<400> 4

atgcgcccgc ggggccctat agggcgcctcc tccgcccgcg gcccgggagc cgcagccgcg 60  
gccgccactg ccactcccgc tctctcagcg ccgcccgtcg caccgccacc gccactgcc 120  
ctaccaccgt ctgagtctgc agtcccagaga tcccagccat catgtccata gagaagatct 180  
gggcccggga gatcctggac tcccggggga accccacagt ggaggtggat ctctatactg 240  
ccaaaggtcc ttccggggct gcagtgccca gtggagcctc tacgggcatc tatgaggccc 300  
tggagctgag ggatggagac aaacagcggt acttaggcaa aggtgtcctg aaggcagtgg 360  
accacatcaa ctccaccatc gcgccagccc tcatcagctc aggtctctct gtggtggagc 420  
aagagaaaact ggacaacctg atgctggagt tggatgggac tgagaacaaa tccaagtttg 480  
gggccaatcc atcctgggtg tgtctctggc cgtgtgtaag gcangggcaa ctgaacngga 540  
actgcccctg tatcgccaca ttgctcagct tggncgggaa ctcanacctc atcctgcctg 600  
ttgccggcct tcaacgtgat caatggttgg cttctcatgc ctggcaacaa anctggccat 660  
tgcnngaatt ttcatgatcc tccccttggg gaaactgaaa aactttccgg aatgccctc 720  
caactaagtt gcaaaaggtc taccnatacc ccccaagggg aattcctcca agggaacaaa 780  
tncccgggaa aggaatgcc cccaattntt ngggggaata aaaggtgggc ttgcccccc 840  
cattttcctg gaaaaaacna tnaaaacctt tgggaaactt 880

<210> 5

<211> 645

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(645)

<223> n = A,T,C or G

<400> 5

tgtgcgttac ttacctenac tcttagcttg tccgggacgg taaccgggac ccggtgtctg 60  
ctcctgtcgc cttcgccctc taatccctag ccactatgcg tgagtgcac tccatccacg 120  
ttggccaggc tgggtgtccan attggcaatg cctgctggga gctctactgc ctggaacacg 180  
gcattccagc cgatggccag atgccaaagt acaagaccat tgggggagga gatgactcct 240  
tcaacacctt cttcagtgag acgggcgctg gcaanacagt gcccgggct gtgtttgtag 300  
acttgaacc cacagtcatt gatgaagttc gcaactggac ctaccgccag ctcttccacc 360  
ctgagcagct catcncaggc aagggaagat ctgccaataa ctatgccga gggcactaca 420  
ccattggcaa ggagatcatt gaccttgtgt tggaccgaat tcgcaagctg gctgaccant 480  
gcaccggtct tcanggcttc ttggttttcc acagctttgg tgggggaact ggttctgggt 540  
tcacctccct gctcatggaa cgtctctcag ttgattatgg caagaaatcc aagctggagt 600  
tctccattta cccagcacc cnggtttccn cngctgtant tngaa 645

<210> 6

<211> 820  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(820)  
 <223> n = A,T,C or G

<400> 6  
 ctttttttcgc aacggggtttg ccgccagaac acaggtgtcg tgaaaactac ccctaaaagc 60  
 caaatggga aaggaaaaga ctcatatcaa cattgtcgtc attggacacg tagattcggg 120  
 caagtccacc actactggcc atctgatcta taaatgcggt ggcatcgaca aaagaacccat 180  
 tgaaaaattt gagaaggagg ctgctgagat gggaaagggc tccttcaagt atgcctgggt 240  
 cttggataaa ctgaaagctg agcgtgaacg tggatcacc attgatatct ccttgtggaa 300  
 atttgagacc agcaagtact atgtgactat cattgatgcc ccaggacaca gagactttat 360  
 caaaaacatg attacaggga catctcaggc tgactgtgct gtcctgattg ttgctgctgg 420  
 tgttggtgaa tttgaagctg gtatctccaa gaatgggcag acccgagagc atgcccttct 480  
 ggcttacaca ctgggtgtga aacaactaat tgtcgggtgt aacaaaatgg attcactgan 540  
 ccaccctaca gccagaagaa atatgangaa attgttaagg aagtcagcac ttacattaag 600  
 aaaattggct acaaccccgga cacagtanca tttgtgccaa tttctgggtg gaatgggtgac 660  
 aacatgctgg aaccaantgc taacatgcct tggttccagg gatggaaaat ccccnttaa 720  
 ggatggcnat gccattggaa ccccccctgt tgaaggtctt ggantgcac ctanaccaa 780  
 ctcttcaaa ttgaaaaaacc ccttgcnccc gctccncca 820

<210> 7  
 <211> 788  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(788)  
 <223> n = A,T,C or G

<400> 7  
 gaggtgagg cagtggctcc ttgcacagca gctgcacgcg ccgtggctcc ggatctcttc 60  
 gtctttgcag cgtagcccgga gtgggtcagc gccggaggac ctcagcagcc atgtcgaagc 120  
 cccatagtga agccgggact gccttcattc agaccagca gctgcacgca gccatggctg 180  
 acacattcct ggagcacatg tgccgcctgg acattgatcc accaccatc acagcccgga 240  
 aactggcat catctgtacc attggcccag cttcccgatc agtggagacg ttgaaggaga 300  
 tgattaagtc tggaatgaat gtggctcgtc tgaacttctc tcatggaact catgagtacc 360  
 atgcggagac catcaagaat gtgcgcacag ccacggaaaag ctttgcttct gaccccatcc 420  
 tctaccggcc cgttgctgtg gctctagaca ctaaaaggacc tgagatccga actgggctca 480  
 tcaaggcgag cggcactgca gaggtggagc tgaagaatgg agccactctc aaaatcacgc 540  
 tggataatgc ctacatggaa aagtgtgacg agaacatcct gtggctggac tacaagaaca 600  
 tctgcaagggt ggtggaagtg ggcaacaaga tctacgtgga tgatgggctn atttctctcc 660  
 aggtgaacac aaagggtgcc acttcctggg tgaacngant ggaaaatggt ggctccttgg 720  
 gcncaagaaa ggtgtgaact tctgggggct gctgtggant tgctgctgt gtcnagaaaa 780  
 gacatcca 788

<210> 8  
 <211> 608  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> misc\_feature  
 <222> (1)...(608)  
 <223> n = A,T,C or G

<400> 8  
 acagcctggc tcctttgagt atgaatatgc catgcgctgg aaggcactca ttgagatgga 60  
 gaagcagcag caggaccaag tggaccgcaa catcnaggag gctcgtgaga agctggagat 120  
 ggagatggaa gctgcacgcc atgagcacca ggtcatgcta atgagacagg atttgatgag 180  
 gcgccaagaa gaacttcgga ggatggaaga gctgcacaac caagangtgc aaaaacgaaa 240  
 gcaactggag ctcaggcagg aggaanagcg caggcgccgt gaagaanaga tgcggcggca 300  
 gcaagaagaa atgatgcggc gacngcagga aggattcaag ggaaccttcc ctgatgcgag 360  
 agagcaggag attcggatgg gtengatggc tatgggaggt gctatgggca taaacnacag 420  
 atgtgccatg cccctgctc ctgtgccagc tggtaaccca gctcctccag gacctgccac 480  
 tattatgccg gatggaactt tgggattgac cccacnaca actgaacgct ttggtcnggc 540  
 tgctacnatg gaangaattg gggcaattgg tggaaactcct cctgcattcn accgtgcagc 600  
 tcctggga 608

<210> 9  
 <211> 608  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(608)  
 <223> n = A,T,C or G

<400> 9  
 acagcctggc tcctttgagt atgaatatgc catgcgctgg aaggcactca ttgagatgga 60  
 gaagcagcag caggaccaag tggaccgcaa catcnaggag gctcgtgaga agctggagat 120  
 ggagatggaa gctgcacgcc atgagcacca ggtcatgcta atgagacagg atttgatgag 180  
 gcgccaagaa gaacttcgga ggatggaaga gctgcacaac caagangtgc aaaaacgaaa 240  
 gcaactggag ctcaggcagg aggaanagcg caggcgccgt gaagaanaga tgcggcggca 300  
 gcaagaagaa atgatgcggc gacngcagga aggattcaag ggaaccttcc ctgatgcgag 360  
 agagcaggag attcggatgg gtengatggc tatgggaggt gctatgggca taaacnacag 420  
 atgtgccatg cccctgctc ctgtgccagc tggtaaccca gctcctccag gacctgccac 480  
 tattatgccg gatggaactt tgggattgac cccacnaca actgaacgct ttggtcnggc 540  
 tgctacnatg gaangaattg gggcaattgg tggaaactcct cctgcattcn accgtgcagc 600  
 tcctggga 608

<210> 10  
 <211> 813  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(813)  
 <223> n = A,T,C or G

<400> 10  
 gttgtggtat ctgtattaag aaatgccoct ttggcgccct atcaattgtc aatctaccaa 60  
 gcaacttgga aaaagaaacc acacatcgat attgtgccaa tgccttcaaa cttcacaggt 120  
 tgcctatccc tcgtccaggt gaagtttttg gattagttgg aactaatggt attggaaagt 180  
 caactgcttt aaaaatttta gcaggaaaac aaaagccaaa ctttggaag tacgatgatc 240  
 ctctgactg gcaggagatt ttgaattatt tccgtggatc tgaattacaa aattacttta 300  
 caaagattct agaagatgac ctaaaagcca tcatcaaac tcaatatgta gaccagattc 360

ctaaggctgc	aaaggggaca	gtgggatcta	ttttggaccg	aaaagatgaa	acaaagacac	420
aggcaattgt	atgtcagcag	cttgatttaa	cccacctaaa	agaacgaaat	gttgaagatc	480
tttcaggagg	agagttgcag	agatttgctt	gtgctgtcgt	ttgcatacag	aaagctgata	540
ttttcatggt	tgatgagcct	tctagttacc	tagatgtcaa	gcagcgttta	aaggctgcta	600
ttactatacg	atctctaata	aatccagata	gatatatcat	tgtggtggaa	catgatctaa	660
gtgtattaga	ctatctctcc	gacttcatct	gctgtttata	tgggtgtacca	agcgcctatg	720
gaattgtcac	tatgcctttt	agtgttagaa	aaggcataaa	cnttttttgg	atgggtatgt	780
tccaacagaa	aacttganaa	tcnnaaatgc	ntc			813

<210> 11  
 <211> 655  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(655)  
 <223> n = A,T,C or G

<400> 11

agactctcac	cgccagcgcc	aggaacgcc	gccgttcacg	cggttcgggtcc	tccttggtctg	60
actcaccgcc	ctgcgcgcgc	caccatggac	gccccaggcc	aggtgggtcaa	ctttgggcct	120
ggtcccgcca	agctgcgcga	ctcagtgttg	ttagagatac	aaaaggaatt	attagactac	180
aaaggagttg	gcattagtgt	tcttgaaatg	agtcacaggt	catcagattt	tgccaagatt	240
attaacaata	cagagaatct	tgtgcgggaa	ttgctagctg	ttccagacaa	ctataagggtg	300
atTTTTctgc	aaggaggtgg	gtgcggccag	ttcagtgtctg	tccccttaaa	cctcattggc	360
ttgaaagcag	gaagggtgtgc	ggactatgtg	gtgacaggag	cttgggtcagc	taaggccgca	420
gaagaagcca	agaagtttgg	gactataaat	atcggttcacc	ctaaacttgg	gagttataca	480
aaaattccag	atccaagcac	ctggaacctc	aaccanattg	cctcctacgt	gttttattgc	540
ncaaatgaaa	cggtgcatgg	tgttganttt	gacttttatac	ccnatgtcaa	gggaacanta	600
ctggtttgtg	acattttcct	ccaacttcct	gtccaancca	attgnatggt	tccea	655

<210> 12  
 <211> 599  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(599)  
 <223> n = A,T,C or G

<400> 12

aaagatgcgc	aggcgccgtg	tggcactcgg	cggtcgaaaag	gggagttcaa	ggagacgggg	60
gcgacgcggc	tgagggcttc	tcgtcgggggt	cggggctgca	gccgtcatgc	cggggatagt	120
ggagctgccc	actctagagg	agctgaaagt	agatgagggtg	aaaattagtt	ctgctgtgct	180
taaagctgcg	gccccatcact	atggagctca	atgtgataag	cccaacaagg	aatttatgct	240
ctgcccgttg	gaanagaaaag	atccgaggcg	gtgcttagag	gaaggcaaac	tggtcaacaa	300
gtgtgctttg	gacttcttta	ggcagataaa	acgtcactgt	gcagagcctt	ttacagaata	360
ttggacttgc	attgattata	ctggccagca	gttattttcgt	cactgtcgca	aacagcaggc	420
aaagtttgac	nagtgtgtgc	tggacaaaact	gggctgggtg	cggcctgacc	tgggaaaact	480
gtcaaaggtc	accaaagtga	aaacagatcn	acctttaccg	ganaatccct	atcactcaag	540
aacaagaacg	gatcccagcc	ctganatcna	aggaaatctg	cancctgcc	cacatggca	599

<210> 13  
 <211> 597  
 <212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(597)

<223> n = A,T,C or G

<400> 13

atatccggag	tagacggagc	cgcagtagac	ggatccgcgg	ctgcacaaa	caactgcccct	60
cggagcctgg	tagtgggcca	caagccccca	gtcccagagg	cgtgattttc	tggcatcctt	120
aaatcttgtg	tcaaggattg	gttataatat	aaccagaaac	catgacggcg	gctgagaacg	180
tatgctacac	gttaattaac	gtgccaatgg	attcagaacc	accatctgaa	attagcttaa	240
aaaatgatct	agaaaaagga	gatgtaaagt	caaagactga	agctttgaag	aaagtaatca	300
ttatgattct	gaatgggtgaa	aaacttcctg	gacttctgat	gaccatcatt	cgttttgtgc	360
tacctcttca	ggatcacact	atcaagaaat	tacttctggt	attttgggag	attgttccta	420
aaacaactcc	agatgggaga	cttttacatg	agatgatcct	tgtatgtgat	gcatacagaa	480
aggatcttca	acatcctaata	gaatttatct	naaggatcta	ctcttcggtt	tctttgcaaa	540
ttgaaanaaa	canaattgct	aaaaccttta	atgccancta	tnoctgcatt	tttgga	597

<210> 14

<211> 634

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(634)

<223> n = A,T,C or G

<400> 14

agactctcac	cgcagcggcc	aggaacgcc	gccgttcacg	cggttcgggtcc	tccttggtcg	60
actcacgcc	ctcgccggcg	caccatggac	gccccaggc	aggtgggtcaa	ctttgggcct	120
gggtcccgcca	agctgcgcga	ctcagtgttg	ttagagatac	aaaaggaatt	attagactac	180
aaagganttg	gcattagtgt	tcttgaaatg	agtcacaggt	catcagattt	tgccaagatt	240
attaacaata	cagagaatct	tgtgcgggaa	ttgctagctg	ttccagacaa	ctataaggtg	300
atttttctgc	aaggaggtgg	gtgcggccag	ttcagtgtcg	tccccttaaa	cctcattggc	360
ttgaaagcag	gaangtgtgc	ggactatgtg	gtgacaggag	cttggtcagc	taaggccgca	420
naanaagcca	agaanttttg	gactataaat	atcgttcacc	ctaaacttgg	gagttatata	480
aaaattccag	atccaagcac	ctggaacctc	aaccagatg	cctcctacgt	gtattattgc	540
gcnaatgaaa	cngtgcattg	tgtggantct	gactttatac	ccgatgtcna	gggaacatac	600
tggtttgtga	catgtcctca	aacttcccg	ccna			634

<210> 15

<211> 757

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(757)

<223> n = A,T,C or G

<400> 15

agtctgcggt	gggctancgg	acgggtccggc	ttccggcgcc	cgttttctgtc	tcttgctggc	60
tgtctcgctg	aatcgcgcc	gccttctcat	cgctcctgga	aggtcccag	cgcgacacca	120
tgctcggaacc	cggggggcg	ggcggcgaag	acngctcgcc	cggattggaa	gtgtcgggcg	180
tgcanaatgt	ggcgacgtg	tcgggtgctgc	anaagcacct	gcgcaagctg	gtgccgctgc	240

tgctggagga	cggcggcgaa	gcgcggcg	cgctggaggc	ggcgctggag	gagaagagcg	300
ccttgagca	gatgcgcaag	ttcctttcgg	acccgcacgt	ccacacgggtg	ctggtggagc	360
gctccacgct	caaagtggac	gtcggatgatg	aaggagaaga	agaaaaagaa	ttcatttcct	420
ataacatcaa	cntagacatt	cactatgggg	ttaaatccaa	tagcttggca	ttcattaaac	480
gtactcccgt	gattgatgca	gataaaccog	tgtctttctca	ntccggggtc	cttacactca	540
gtgaanactc	nccctacnaa	aactttgcat	tctttcatta	acaatgcagt	ggctcctttt	600
tttaantcct	acattaaaaa	atctggcaag	gcaaacaggg	atggtgataa	aatggctcct	660
tccnttgaaa	aaaaaattgc	cgaactcnaa	atnggactcc	ttcccttgca	ncaaaatttt	720
tgaaattccg	gaaaatcanc	ctgccaatt	cctcccc			757

<210> 16  
 <211> 300  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(300)  
 <223> n = A,T,C or G

atcatttcct	tatttatatt	tcatgttgga	atgcttaa	cgataacctt	tgtattttga	60
agtgcgcgac	atggaaggtg	atctgcaaga	gctgcatcag	tcaaacaccg	ggggataaat	120
ctggattttg	gttccggcgt	caaggtgaag	ataataccta	aagaggaaca	ctgtaaaatg	180
ccagaagcag	gtgaanagca	accacaagtt	taaatgaaga	caagctgaaa	caacgcaagc	240
tggttttata	ttagatattt	gacttaaact	atctcaataa	agttttgcag	ctttcaccac	300

<210> 17  
 <211> 313  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(313)  
 <223> n = A,T,C or G

aaagatggcg	gcgggggagg	taggcagagc	aggacgcgcg	tgctgccgcc	gccaccgcgc	60
cctccgctcc	agtcgcctcc	ggtccttcaa	actcacacct	cccgggagga	gctgtccttg	120
cgccgggtcc	cgccgggaaa	atggtggagc	cagggcaaga	tttactgctt	gctgctttga	180
gtgagagtgg	aattagtccg	aatgactcct	tgatattgat	ggtggagatg	canggcttgc	240
aactccaatg	cctaccccg	cagttcagca	ntcagtgcca	cttantgcat	tanaactang	300
tttgagagacc	gaa					313

<210> 18  
 <211> 667  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(667)  
 <223> n = A,T,C or G

actgccgggc	tcggcgtgag	tcgctgcggg	gctgacgggg	tggcagtgcg	gcgggttacg	60
------------	------------	------------	------------	------------	------------	----

gcctgggtcag	accataatga	cttcagcaaa	taaagcaatc	gaattacaac	tacaagtga	120
acaaaatgca	gaagaattac	aagactttat	gcgggattta	gaaaactggg	aaaaagacat	180
taaacaaaag	gatatggaac	taagaagaca	gaatgggtgtt	cctgaagaga	atttacctcc	240
tattcgaaat	gggaatttta	ggaaaaagaa	gaaaggcaaa	gctaaagagt	cttcccaaaa	300
accanagagg	aaaacacnaa	aaacaggata	aatcttatg	attatgangc	atgggcaaaa	360
cttgatgtgg	accgtatcct	tgatgagctt	gacaaagacg	atagtacca	tgagtctctg	420
tctcaagaat	cagagtcgga	agaagatggg	attcatgttg	attcncnaaa	ggctcttggt	480
ttaaaagaaa	agggcnataa	atacttcac	aaggaaaata	tgatgaagca	attgactgct	540
acacnaaagg	cntggatgcc	gatccatn	atcccgtgtt	gccaacgaac	anaacntccg	600
catattttag	actgaaaaaa	tttgctgttg	ctgaatctga	ttgttattta	ncanttgctt	660
tgaaata						667

